DECODING

CLASS FIELD THEORY...

School of Mathematics

IPM introductory seminars on Algebraic Geometry and Number Theory

Speaker: Ali Rajaei, Tarbiat Modarres University

Date & Time: Thursday, 7th March 2024 (17th Esfand 1402) at 2 pm (Tehran time)

Location: IPM, Niavaran Building, Lecture Hall 2

ABSTARCT. Class Field Theory is a profound and significant branch of algebraic number theory, primarily concerned with the study of abelian extensions of local and global fields by utilizing intrinsic objects from the ground field. Through the examination of complex interrelations and principles such as reciprocity laws, conductors, and L-functions, this theory illuminates the elegant structures governing global fields.

In the forthcoming lecture, our focus will be on number fields, aiming to elucidate the core concepts and methodologies with a keen emphasis on motivational examples and historical context. It is hard to do justice to the field in one lecture, so expect a lot of bias and injustice!!

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